



## NOGALES AIR QUALITY FORECAST ISSUED Tuesday, July 5, 2016

This report is updated by 1:00 p.m. Sunday thru Friday and is valid for the U.S./Mexico border in proximity to the city of Nogales.

FORECAST DATE	YESTERDAY Mon 07/04/2016	TODAY Tue 07/05/2016	TOMORROW Wed 07/06/2016	EXTENDED Thu 07/07/2016
<b>NOTICES</b>				
AIR POLLUTANT	AQI Reading/Category (Preliminary data only)			
<b>PM-10</b> (Particles 10 microns and smaller)	28 GOOD	27 GOOD	20 GOOD	20 GOOD
<b>PM-2.5</b> (Particles smaller than 2.5 microns)	45 GOOD	36 GOOD	32 GOOD	34 GOOD

**PM-10 or PM-2.5 Health Watch (HW)** means that the highest concentration of PM-10 or PM-2.5 may **approach** the federal health standard.

**PM-10 or PM-2.5 High Pollution Advisory (HPA)** means that the highest concentration of PM-10 or PM-2.5 may **exceed** the federal health standard.

Health Statements	
Tuesday 07/05/2016	No health impacts are expected.
Wednesday 07/06/2016	No health impacts are expected.

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## Synopsis and Discussion

*Both PM-10 and PM-2.5 finished yesterday in the Good AQI range. Looking ahead, particulates are forecast to continue in the Good range this week. Good ventilation each afternoon (southwesterly, 10-15 mph winds) and warm daytime temperatures will help prevent any significant accumulation of particulates. Also, soil conditions should also be more stable due to rain from recent storms, which will help to limit dust. Moreover, thunderstorms are possible Wednesday afternoon in/around the Nogales area. Any rain or gusty winds from storm outflows will decrease particulate levels.*

*Check back tomorrow for the latest. Until then, have a good day! –M.Graves*

### POLLUTION MONITOR READINGS FOR Monday, July 4, 2016

#### PM-10 (COARSE PARTICLES)

SITE NAME	MAX 24-HR VALUE ( $\mu\text{g}/\text{m}^3$ )	MAX AQI	AQI COLOR CODE
Nogales	30	28	

#### PM-2.5 (FINE PARTICLES)

SITE NAME	MAX 24-HR VALUE ( $\mu\text{g}/\text{m}^3$ )	MAX AQI	AQI COLOR CODE
Nogales	10.9	45	

### Local Air Pollutants in Detail



#### PM-10 AND PM-2.5 (PARTICLES):

**DESCRIPTION:** The term “particulate matter” (PM) includes both solid particles and liquid droplets found in air. Many manmade and natural sources emit PM directly or emit other pollutants that react in the atmosphere to form PM. Particles less than 10 micrometers in diameter tend to pose the greatest health concern because they can be inhaled into and accumulate in the respiratory system. Particles less than 2.5 micrometers in diameter are referred to as “fine” particles and are responsible for many visibility degradations. Particles with diameters between 2.5 and 10 micrometers are referred to as “coarse”.

**SOURCES:** Fine = All types of combustion (motor vehicles, power plants, wood burning, etc.) and some industrial processes. Coarse = crushing or grinding operations, dust from paved or unpaved roads, as well as dirt and sand from the open desert.

**POTENTIAL HEALTH IMPACTS:** PM can increase susceptibility to respiratory infections and can aggravate existing respiratory diseases, such as asthma and chronic bronchitis.

**UNITS OF MEASUREMENT:** Micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ )

**AVERAGING INTERVAL:** 24 hours (midnight to midnight).

REDUCTION TIPS: Stabilize loose soils, slow down on dirt roads, carpool, and use public transit, reduce or avoid wood burning or fireplace activity where advised.

*Updated 5/6/2016*